

*Please amend the claims as follows:*

- 1-4. (Canceled)
5. (Original) An isolated laminin  $\alpha 5$  polypeptide, consisting of the amino acid sequence of SEQ ID NO:2.
6. (Original) Isolated laminin 10.
7. (Original) The isolated laminin 10 of claim 6, wherein the isolated laminin 10 is recombinant laminin 10.
8. (Original) The isolated recombinant laminin 10 of claim 7 comprising:
  - a first chain encoded by a polynucleotide that hybridizes under high stringency conditions to a coding region of one or more sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:3;
  - a second chain encoded by a polynucleotide that hybridizes under high stringency conditions to a coding region of one or more sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:7, SEQ ID NO:9, and SEQ ID NO:11; and
  - a third chain encoded by a polynucleotide that hybridizes under high stringency conditions to a coding region of one or more sequence selected from the group consisting of SEQ ID NO: 13, SEQ ID NO:15, SEQ ID NO:17, and SEQ ID NO:19;wherein the first, second, and third chains are assembled into recombinant laminin 10.
9. (Original) The isolated recombinant laminin 10 of claim 7 comprising:
  - a first chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:2, and SEQ ID NO:4;
  - a second chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, and SEQ ID NO:12; and
  - a third chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, and SEQ ID NO:20;

wherein the first, second, and third chains are assembled into recombinant laminin 10.

10. (Original) The isolated recombinant laminin 10 of claim 7 comprising a first, second, and third polypeptide chain, wherein the first, second, and third polypeptide chains each comprise a general structure selected from the group consisting of: (1) R1-R2-R3; (2) R1-R2-R3(e); (3) R3; (4) R3(e); (5) R1-R3; (6) R1-R3(e); (7) R2-R3; and (8) R2-R3(e)

wherein R1 is an amino terminal methionine; R2 is a signal sequence that is capable of directing secretion of the polypeptide, wherein the signal sequence may be the natural signal sequence for the particular laminin chain, that of another secreted protein, or it may be an artificial sequence; R3 is a secreted  $\alpha$ 5 laminin chain for the first polypeptide chain, a secreted  $\beta$ 1 laminin chain for the second polypeptide chain, and a secreted  $\gamma$ 1 laminin chain for the third polypeptide chain; and R3(e) is identical to R3, but further comprises an epitope tag.

11-16. (Canceled)

17. (Previously amended) Isolated recombinant laminin 10 [~~isolated according to~~] **produced by** a method comprising

a. providing recombinant laminin 10-expressing host cells, wherein the recombinant laminin 10 comprises:

a first chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:2, and SEQ ID NO:4;

a second chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, and SEQ ID NO:12; and

a third chain comprising a polypeptide at least 70% identical to one or more polypeptide sequences selected from the group consisting of SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, and SEQ ID NO:20;

wherein the first, second, and third chains are assembled into recombinant laminin 10;

b. growing the cells in cell culture medium under conditions to stimulate expression of the recombinant laminin 10 chains;

c. passing the cell culture medium through an affinity chromatography column, wherein the column contains a compound that binds to the recombinant laminin 10;

- d. washing the affinity column to remove unbound materials; and
- e. eluting the bound recombinant laminin 10 from the column.

18-22. (Canceled)

23. (Original) A pharmaceutical composition comprising:

- a) the isolated laminin 10 of claim 6; and
- b) a pharmaceutically acceptable carrier.

**24 (New) The isolated laminin 10 of claim 9 wherein the first chain comprises a polypeptide at least 80% identical to the polypeptide sequence of SEQ ID NO:2.**

**25 (New) The isolated laminin 10 of claim 9 wherein the first chain comprises a polypeptide at least 90% identical to the polypeptide sequence of SEQ ID NO:2.**